Color Television Type

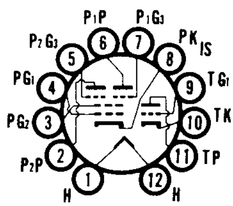
VERTICAL DEFLECTION OSC. (T) SYNC/AGC AMPLIFIER (P)

6BA11

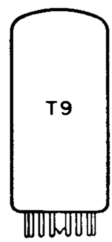
8BA11

Medium Mu Triode and Twin Pentode

Construction.............Compactron T-9
Base ....Button 12 Pin, E12-70
Basing 12ER
Outline 9-58
Maximum Diameter ....1.188 In.
Maximum Seated Height ....2.000 In.
Maximum Overall Height ......2.375 In.



12ER



ELECTRICAL DATA

HEATER OPERATION

	8BA11	6BA11
Heater Voltage	8.4	6.3 Volts
Heater Current	450	600 Ma
Heater Warm-up Time	11	11 Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
Total DC and Peak		200 Volts
Heater Positive with Respect to Cathode		
DC		100 Volts
Total DC and Peak		200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Pentode Section

Grid No. 3 to Plate (Each Pentode)	2.0 Pf
Grid No. 1 to All	6.0 Pf
Grid No. 3 (Each Pentode to All)	3.6 Pf
Plate (Each Pentode to All)	3.0 Pf
Grid No. 3 (Pentode 1) to Grid No. 3 (Pentode 2) (Max.)	0.026 Pf

Triode Section

Grid to Plate	2.0 Pf
Input: g1 to (k + h)	2.0 Pf
Output: p to (k + h + IS)	1.9 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage	300	300 Volts
Grid No. 2 Voltage	—	150 Volts
Positive DC Grid No. 3 Voltage	—	3.0 Volts
Negative DC Grid No. 3 Voltage	—	50 Volts
Peak Positive Grid No. 3 Voltage	—	50 Volts

Negative DC Grid No. 1 Voltage	—	50 Volts
Plate Dissipation (Each Plate)	1.5	1.1 Watts
Grid No. 2 Dissipation	—	0.75 Watt
DC Cathode Current	20	12 Ma
Grid No. 3 Circuit Resistance (Each Grid)	—	0.5 Megohm
Grid No. 1 Circuit Resistance		
Fixed Bias	0.25	0.5 Megohm
Cathode Bias	1.0	0.5 Megohm

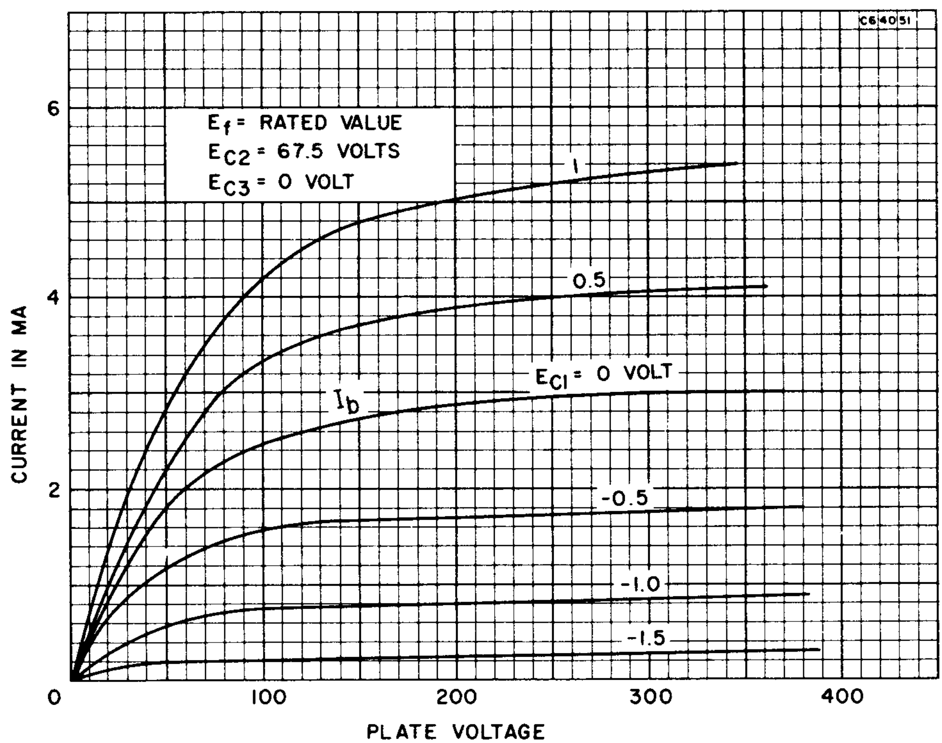
CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Each Section Separately(2)		Pentode Both Sections Operating(3)	
Plate Voltage	250	100	100	100	100 Volts
Grid No. 2 Voltage	—	67.5	67.5	67.5	67.5 Volts
Grid No. 3 Voltage	—	0	0	–10	0 Volts
Grid No. 1 Voltage	–11	0	Note 1	Note 1	Note 1 Volts
Plate Current	5.0	—	2.5	0	2.5 Ma
Grid No. 2 Current	—	—	—	7.0	4.4 Ma
Grid No. 1 Transconductance	1800	1700	—	—	— μmhos
Amplification Factor	18	—	—	—	—
Grid No. 3 Transconductance	—	—	450	—	— μmhos
Grid No. 1 Voltage Ib = 100 μa	–18	2.3	—	—	— Volts
Grid No. 3 Voltage (Approx.) For Ib = 100 μa	—	—	–3.2	—	— Volts

NOTES:

(1) Grid current adjusted for 100 μa DC.
(2) Plate and Grid No. 3 of opposite section grounded.
(3) Voltages and plate current apply to each section.

AVERAGE PLATE CHARACTERISTICS
(Pentode Section)
(with Opposite Grid No. 3 and Plate Grounded)



AVERAGE PLATE CHARACTERISTICS
(Triode Section)

